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FILE 'MEDLINE, AGRICOLA, CANCERLIT, SCISEARCH, CAPLUS, BIOSIS, MEDICINF'
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L1 82798 S ENDONUCLEASE?
L2 193 S L1 AND I-SCEI
L3 16 S L2 AND TRANSGENIC
L4 9 DUP REM L3 (7 DUPLICATES REMOVED)
L5 9 SORT L4 PY
L6 159622 S TRANSGENIC
L7 20 S L6 AND I-SCEI
L8 10 DUP REM L7 (10 DUPLICATES REMOVED)
L9 10 SORT L8 PY

=> d ti so au ab pi 19 5,8

L9 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Nucleotide sequence encoding yeast enzyme **I-SceI** and
its use in inducing homologous recombination in eukaryotic cells and
protein production in **transgenic** animals

SO PCT Int. Appl., 122 pp.

CODEN: PIXXD2

IN Choulika, Andre; Perrin, Arnaud; Dujon, Bernard; Nicolas, Jean-Francois
AB Synthetic DNA encoding the enzyme **I-SceI** is provided.
The DNA sequence can be incorporated in cloning and expression vectors,
transformed cell lines and **transgenic** animals. The vectors are
useful in gene mapping and site-directed insertion of genes. A synthetic
gene encoding *Saccharomyces cerevisiae* **I-SceI**
restriction endonuclease was expressed in *Escherichia coli* and yeast. The
enzyme was used in genetic mapping of a yeast chromosome, of YAC's, and of
cosmids. **I-SceI** efficiently induced double-stranded
breaks in a chromosomal target in mammalian cells and the breaks were
repaired using a donor mol. that shares homol. with the regions flanking
the break.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9614408	A2	19960517	WO 1995-EP4351	19951106
WO 9614408	A3	19960829		
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5792632	A	19980811	US 1994-336241	19941107
EP 791058	A1	19970827	EP 1995-938418	19951106
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10508478	T2	19980825	JP 1995-515058	19951106

L9 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Cloning and expression of gene for restriction endonuclease **I-SceI** of *Saccharomyces cerevisiae* and use of **I-SceI**

SO U.S., 79 pp. Cont.-in-part of U. S. 5,474,896.

CODEN: USXXAM

IN Dujon, Bernard; Choulika, Andre; Perrin, Arnaud; Nicolas, Jean-francois
AB A mitochondrial gene encoding restriction endonuclease **I-SceI** of *Saccharomyces cerevisiae* and a synthetic universal code
encoding **I-SceI** for the expression in *Escherichia coli*
and yeast are provided. Applications of **I-SceI** for
genetically mapping yeast chromosomes by the nested chromosomal
fragmentation strategy, inducing double stranded DNA break, and in vivo
site-directed insertion of genes and homologous recombination in
eukaryotes are also described. It may also be used for prepg.
transgenic animal models of human diseases and genetic disorders.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

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WO 9614408 A3 19960829

W: CA, JP

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

CA 2203569 AA 19960517 CA 1995-2203569 19951106

EP 791058 A1 19970827 EP 1995-938418 19951106

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

JP 10508478 T2 19980825 JP 1995-515058 19951106

US 5948678 A 19990907 US 1998-119024 19980720

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PI	US 5792632	A	19980811	US 1994-336241	19941107
	US 5474896	A	19951212	US 1992-971160	19921105
	US 5866361	A	19990202	US 1995-465273	19950605
	WO 9614408	A2	19960517	WO 1995-EP4351	19951106
	WO 9614408	A3	19960829		
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2203569	AA	19960517	CA 1995-2203569	19951106
	EP 791058	A1	19970827	EP 1995-938418	19951106
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	JP 10508478	T2	19980825	JP 1995-515058	19951106
	US 5948678	A	19990907	US 1998-119024	19980720